

In accordance with 37 C.F.R. § 1.121, please substitute for claim 12 the following rewritten version of the same claim, as amended. The changes are shown explicitly in the attached "Version with Markings to Show Changes Made".

12. (Amended) An isolated, enriched, or purified PTP04 polypeptide, wherein said polypeptide comprises:

- (a) an amino acid sequence comprising at least 90% identity to the full length amino acid sequence set forth in SEQ ID NO: 2;
- (b) an amino acid sequence comprising at least 90% identity to the full length amino acid sequence of the sequence set forth in SEQ ID NO: 2, except that it lacks amino acid residues 1-48, 49-294 or 295-807 of SEQ ID NO: 2;
- (c) an amino acid sequence comprising at least 90% identity to the amino acid sequence set forth in amino acid residues 1-48, 49-294, or 295-807 of SEQ ID NO: 2; or
- (d) an amino acid sequence comprising at least 90% identity to the full length amino acid sequence set forth in SEQ ID NO: 2 except that it lacks an N-terminal domain or a C-terminal domain.

Please add the following new claims.

23. The polypeptide of claim 12, wherein said polypeptide comprises an amino acid sequence comprising at least 95% identity to the full length amino acid sequence set forth in SEQ ID NO:2.

24. The polypeptide of claim 12 wherein said polypeptide comprises the full length amino acid sequence set forth in SEQ ID NO:2.

25. The polypeptide of claim 12, wherein said polypeptide comprises an amino acid sequence comprising at least 95% identity to the amino acid sequence set forth in amino acid residues 1 – 48, 49 – 294 or 295 – 807 of SEQ ID NO:2.

26. The polypeptide of claim 12, wherein said polypeptide comprises the amino acid sequence set forth in amino acid residues 1 – 48, 49 – 294 or 295 – 807 of SEQ ID NO:2.

27. The polypeptide of claim 12 wherein polypeptide comprises an amino acid sequence comprising at least 95% identity to the full length amino acid sequence set forth in SEQ ID NO:2 except it lacks amino acid residues 1-48 or 295-807 of SEQ ID NO:2

28. The polypeptide of claim 12 wherein polypeptide comprises the full length amino acid sequence set forth in SEQ ID NO:2 except it lacks amino acid residues 1-48 or 295-807 of SEQ ID NO:2

29. The polypeptide of claim 12 wherein polypeptide comprises an amino acid sequence comprising at least 95% identity to the full length amino acid sequence set forth in SEQ ID NO:2 except it lacks an N-terminal domain or a C-terminal domain.

30. The polypeptide of claim 12 wherein polypeptide comprises the full length amino acid sequence set forth in SEQ ID NO:2 except it lacks an N-terminal domain or a C-terminal domain.

31. An isolated, enriched or purified polypeptide comprising the polypeptide of claim 12 fused to non-PTP04 polypeptide.